CSE 581

**Lab 13: Triggers**

**Purpose:**

Create a trigger.

**Deliverables:**

Multiple screenshots, as described through the lab.

Scripts that you used to carry out the actions.

**Steps:**

1. Create a trigger[[1]](#footnote-1) on insert/delete/update of the Enrollment table:
   1. when inserting a new record, update the Courses table’s OpenSeats for the course into which the student is being enrolled.
   2. when deleting a record, update the Courses table’s OpenSeats for the course from which the student was deleted.
   3. if an update happened on the CourseId (student switched courses), adjust the Courses table’s OpenSeats accordingly.

Provide a **screenshot** of script execution, creating the trigger(s).

1. Insert, Delete and Update (course switch) the Enrollment table.

*For each operation:*

Provide **screenshots** of selects against the Enrollment and Courses tables (getting state prior to execution).

Provide a **screenshot** of executing the operation.

Provide **screenshots** of selects against the Enrollment and Courses tables (proving that the execution worked as expected).

Screenshots:

1. Courses and CourseEnrollment before creating the trigger

A computer screen with a white text

Description automatically generated with medium confidence

1. Trigger creation

A computer screen shot of a computer

Description automatically generated

1. Insertion, deletion and updation

A computer screen shot of a computer

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Description automatically generatedA computer screen with a computer screen

Description automatically generatedA computer screen with a white screen

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1. You can create 3 triggers, one per action. If you create a single trigger that can do all 3, you get an extra 5% bonus. [↑](#footnote-ref-1)